BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Detailed Estimate for Emergency Repairs and Maintenance of Electrical Equipments of Cremetorium at Hebbal, Kempapura

Budget Head P0287

Division No..... Estimate No. ..... For Rs 5,00,000.00

Sl. No.	Description of Work	Qty.	Rate Rs. Ps.	Unit	Amount
1	Supplying and fixing of aluminium body laying bricks to withstand temperature of 1200 degree centigrade as per required size	8	6950 00	Each	55600 00
2	Supplying and fixing of heating element made out of nickel chromium 8/20, 8 SWG composition wire with SS 310, 450 x 10 mm dia. with one side threaded terminal rod duly welded. coil length 2690 mm, coil dia., 25 mm, weight of the coil 4.5 kg, coil of 0 to 25 mm ID 15 mm pitch to 8 to 10 mm (inclusive of KST, ST and CESS etc	10	16950.00	Each	169500.00
3	High temperature Fire crate super paste to withstand temperature 1200 degree centigrade (50 kgs/bags)	2	1800.00	Each	3600.00
4	High temperature setting cent acco set 50 (50 kgs/bags)	3	1300 00	Each	3900.00
5	High temperature white het/k acco set casting cement to withstand temperature of 1200 degree centigrade (50 kgs/bags)	4	2750.00	Each	11000.00
6	KSRB 15-18.4: Providing and applying aluminium paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Page No.130 Sl no:-15.76(Area weightage 6 % to be added) Basic rate Rs 45.00/Sqm i.e Rs.47 83	190.2	47.70	Sqm	9072.54
	Water Lines				
7	KSRB 13-9.1:- Providing and fixing to wall , ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure32 mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2 15.2/13.9 Page No.102 Sl no:-13.71 (Area weightage 6 % to be added) Basic rate Rs 228.00/m i.e Rs.241.7	39	241 70	mtr	9426 30
8	Gate Valve 15 mm Nominal bore-gun metal Page No.XXIV Sl no:-668(Area weightage 6 % to be added) Basic rate Rs 250.00/each i.e Rs.265.00	10	265.00	Each	2650.00

9	Manufacturing, providing, Transporting, rolling, lowering, laying and jointing testing commissioning of ERW (Electric Resisitance welded) SAW (Submerged Arc Welded) MS pipe (Fe-410 grade) confirming to IS 3589-2001 with latest amendments including perfect linking and welding of joints to correct position including cost and conveyance of pipes and materials with all lead and lift, cost of all labour and giving satisfactory hydraulic test as per I 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc., complete as per detailed specifications with inside C.M. 1:1:5 lining of minimum 10 mm thick upto 610 mm OD and Minimum 12 mm thick beyond 610 mm OD and outside minimum 25 mm thick coating in CM 1:3 over 50 X 50 mm weld mesh of 13 guage, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water whereever necessary. The rates are inclusive of all taxes and duties 1)323.9 mm dia 6.4 mm thickness including Cost of inner lining outer coating, lowering, laying jointing, perfect linking BWSSB SR Pno- 33 I.No-01	3	4133.00	per mtr	12399.00
	H.T Yard and Panel Work				
10 42/39	Supply and Installation/Fixing/Provision for mounting of HRC Fuse /MCB with suitable connector/teminal for 3 Ph/1 Ph connections with Loop-in & Loop-Out terminals for 10 Sqmm/25 sqmm 3.5 C Al/AR/Cu/AR Cable and branchout 2.5 Sqmm 2 Core Al/Cu PVC insulated cable, enclosure, which should be shock proof, safe IP 65 (Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP 65	8	1570.00	Each	12560.00
11 32/4	Supplying of Switch disconnector fuse unit (TPN) HRC type (but without HRC fuses).With AC-23A duty and as per IS 13947.III 200 Amps 1) Group 'A'	3	5600.00	Each	16800.00
12 33/5	Supplying and fixing HRC fuse units base on existing switch/panel board c) 250 Amps	9	415.00	Each	3735.00
13 33/6	Supplying and fixing HRC fuse link on existing switch fuse base as per IS-13703 d) 200 Amps	9	416.00	Each	3744.00
14 33/8	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947 e) 160-200 Amps	8	11960.00	Each	95680.00
15 41/36	Supplying..... amps rated 3 phase with neutral bus bar using requirement capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6 mm M.S flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. b) 250Amps 4x30x10mm Alluminium Strips	3.5	2650.00	Rmtr	9275.00
16 38/16	Supplying, fixing and wiring 0 to 600 Volts 96x96mm AC Voltmeter on existing panel/wood board. Group 'A'	2	430.00	Each	860.00
17 39/20	Supplying, fixing and wiring 0 to 1500 amps CT operated AC analog type Ammeter (With out CT)	2	590.00	Each	1180.00
18 39/21	Supplying, fixing and wiring rotary selector switch suitable for Ammeter	2	430.00	Each	860.00
	Supplying, fixing and wiring rotary selector switch suitable for voltmeter	2	245.00	Each	490.00
19 40/30	Supplying, fixing and wiring 50/5 to 400/5 Amps 5 VA burden Current Transformer, Class 0.5 accuracy with Tape Wound. a) Group A	6	460.00	Each	2760.00
20 71/14	Supplying and making HT-XLPE/PILC Heat shrinkable push on/resin cast UG cable termination suitable for 11/6.6 KV H T cable complete I. OUT DOOR HT - Kit a. 3x95 Sqmm1. Group A	2	12700.00	Kit	25400.00

21 72/15	Supplying and making straight through HT-XLPE/PILC Heat shrinkable push on/resing cast UG cable jointing kit suitable for 11/6.6 KV H.T cable UG a. 3x95 Sqmm 1. Group A	1	20300.00	kit	20300.00
22 73/17	Supplying and laying of high tension Dry Cure 3 core under ground XLPE (E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconduting compound in combination with copper tape, core laid up inner sheate of PVC tape GI flat strip armoured and	29	1001.00	Rmtr	29029.00
	Miscellaneous				181.56
	Total				**500000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2010-11 Rates.

Assistant Engineer (Ele)
Yelahanka Zone

I/c Asst. Executive Engineer (Elecl)
Yelahanka Zone

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

TECHNICALLY SANCTIONED FOR Rs. 5.00 lakhs
Rupees five lakhs only
Under POW 13-14
Registered as EE ( ) No 9 9
Subject to conditions contained in enclosed memo EE ( ) No EE(Ele)/42/TS/14/13-14 dt 1A
Dt 22/02/2014 Estimate Administrated
BBMP/AE/42/AA/879/13-14 Dt
Dated 22/02/2014 Rs 5.00 lakhs

Executive Engineer

ADMINISTRATIVELY SANCTIONED FOR Rs 5,00 lakhs
Rupees Five lakhs only
Under POW 13-14
Registered as EE ( ) No 3 9
Subject to conditions contained in enclosed memo EE ( ) No /
Dt Estimate Administrated
Addl Com (42) AS/879/13-14
dated 22.2.2014 Rs 5.00 lakhs

Addl Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92